

Patent Claims

- 5 1. Engine compartment partitioning layer (7) for use in an engine compartment (1), wherein said partitioning layer (7) partitions the engine compartment (1) and forms at least one acoustically effective cavity (8) within the closed engine compartment (1).
2. Partitioning layer (7) according to claim 1, wherein said partitioning layer (7) consists of a carrier layer (12) and a sound absorbent layer (13).
- 10 3. Partitioning layer (7) according to claim 2, wherein said carrier layer (12) comprises a compressed phenolic resinous nonwoven layer.
4. Partitioning layer (7) according to claim 3, wherein said carrier layer (12) is provided with a first water and oil repellent layer (14), in particular a textile scrim or felt layer, on the engine hood side.
- 15 5. Partitioning layer (7) according to claim 2, wherein the sound absorbent layer (13) comprises a slightly compressed phenolic resinous layer, in particular a textile scrim or felt layer.
6. Partitioning layer (7) according to claim 5, wherein the sound absorbent layer (13) is provided with a second water and oil repellent layer (15), in particular a textile scrim or felt layer, toward the engine compartment floor or the ground.
- 20 7. Partitioning layer (7) according to one of claims 1 to 6, wherein said partitioning layer (7) is made of several joinable and mutually complementary sections.
8. Partitioning layer (7) according to one of claims 1 to 7, wherein said partitioning layer (7) is provided with at least one acoustically effective aperture (16).
9. Use of an engine compartment partitioning layer (7) according to claim 1 within an engine compartment (1).
- 25 10. Use of several engine compartment partitioning layers (7, 9) according to claim 1 within an engine compartment (1) for forming a plurality of acoustically effective cavities (8, 10) within the engine compartment (1).
11. Use of several engine compartment partitioning layers (7, 9) according to claim 9, wherein said cavities (8, 10) have differing volumes.
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